EXHIBIT 18

Mead COMPOSITION

100 sheets • 200 pages '93/4 x 71/2 in/24.7 x 19.0 cm wide ruled • 09910

The Mead Corporation, Dayton, Ohio 45463 U.S.A.

Chicken gene homologous to pomel 17: Japan pop a chicken gene homory

human melanocyte RNA 700, (1000, 400, 300 bp 100-00)

[press = deletion same donor pute]

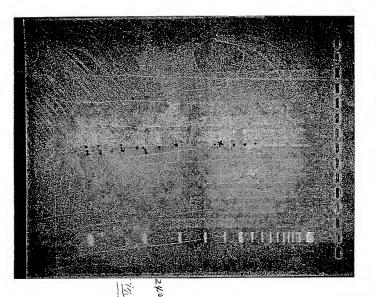
[press = deletion same donor acceptor "

[press = deletion same donor accepto become smeller (550 bg) when doned Fin get 700 (1 >> 900 bp (20) 4-1BB (-320) filter aberdy made high stringent

Aget Jurket 500 -> (Southern [human, Gibbon, monuse DNA)

Genowin ONA cut = RI 500) - closed partially sex-380 380 -7 cloned but ? pHA-Stoumloted human pBL Tall 300 300 Riboral birdy protes O MLA Joly At (Gilbon Ted) 2) Jurkat (humit) 3 Motty (hum-T)

So this set the set of the set of



Neg. Control
Neg. Control
MLA poly ft HZ

" 2+36

" Total H2

" 458

" 2+36

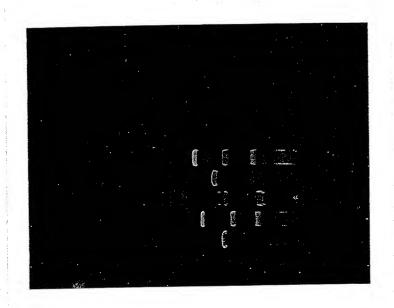
Mote 4 Total H2

" 1+38

" 2+36

100 bp ludder

4-1135 MLA polyA+ [1+2 " + 1+3R Total RNA pit 2 2+37 Molt 4 R8 Poly At 1+2 Negative control 10 pl each, 100 n 400 bp 15 x 20 cm gel (Bio-Rad) in TBE, 150 30x hr [1% Agarose [1.5% Sea Plague - 19:30 run until front dye is out start 12: 20 at 104 V 50 mA 12:45 10 6 V 56 mp 18: 40 deneture KWON000132



BSTXI COMP

A menter

con cert PXM

RI cut pXM

Vector perparation

pxM the population cut is EnoRI

plasmid 20 ml (20 mg)

REaut 3 10 ml

EvoRI 5 ml (50 mm)

wolter 65 ml

100 ml

10:45

copy 8 cut = BstXI

plasmid 20 ul

NEB buffer 3 10 ul

water 65 ul

B:+X7 5 nl

100 ul 11:

at stoc

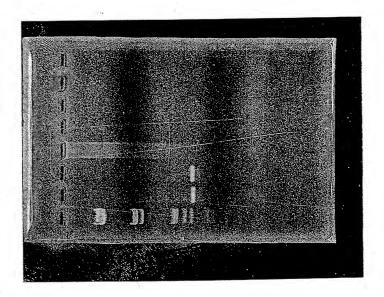
CIP treat &

- 68°C 45 mm in the presence of 10 mm EGTA

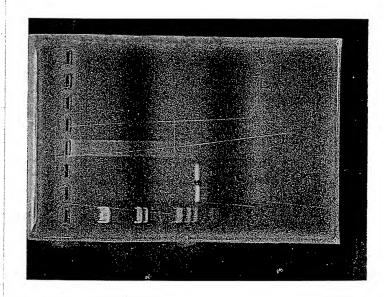
- hot phenol 60°C entraction 5 min twice

- choloroform extractor at RT.

- Eof prep.



1. Negative control
2 5/ver -New 180 pl
3 ... 30 pl
4 ... old 30 pl
5 heterozygote
6 C57 BL
7 C3 H
8 make Tal(130 ng)



	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	Y 0 20 28 buffer 10 X
erano.	Y. 2016 Malle somM
an april	5-1Ver-01d
	Glver-new
	C57BL
	(silver + (5786) F)
e en estado	C3H
_	x 30 ml reaction each x (5 reaction + 1 negative)
	= 180 ml (-6=176 ml)
	10 X buffer 18,0 ml
	Mycla (50mM) 54 ml (1.5 mM final)
	dNTP (2mm) 18.0 ml (0.2 mm find)
_	primer (5/283) (.onl (0,71 pmole/ul fmil)
	" (\$1284) 1. out (o.15 poul al. ")
	43 × m
	witer 129,6
	Tag polymerage (10 int (5 miss)
	174.0
	divide 29 ml x 6
-	1. Blank 2.58 lver-new 3.58 lver-old 4.057 12 5 F1 6 C34
	genomin pVA Int KWON000137

song/ml find inc Dr. Park's # 8, 11, 26 + two more Silver = soul + 35 oul of 73/505/proter see is buffer → 65°C > (hr. → Chbroforn ontraction > 2001. 204 (laguing) -> sporling 3times peters ? C57BL C34 10 Septs - protomise 10 dyestin 17:05~ (18:05) ~20:25 KWON000138

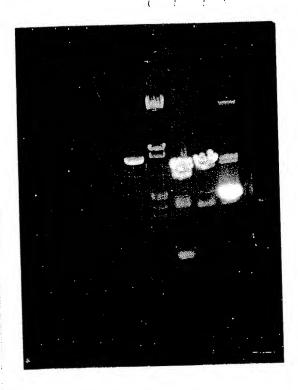
@ uncut Turket 100

@ Junker for out = RZ

3 Jurked for cut & RIL HTE

@ > merteer 250 Mg (5 ml)

QCDM8/BSEXI at. purified on 5-10/ KOAC (Int at of social)



30mg/ ml x 2000

(Lest out pGZM 7Z+ + Jarked 500 (in Smal site) E HIM I and ENORI plasmid 30 ml (40 mg) React 3 10 ml water 55 ml Eco BI sul 100 ml at 37°c 1 h (11:05-12:43) verify out on sparose GE. CLAS Residi 100ml React 1 10 pl (with Rent 3 + beamer React 2) 85 pl water Hind IL 5 ml 200 pl (12:55~ 2:35) - Load Whole Rx mixture outor 1% Aparose cut out band load land outo 3.1% PAGZ purity -9 Nick translation KWON000140

Must be to the state of the many of the state of the stat KWON000141

labelling of 4-1BB (1.214) by Nule-translation 1 ml (100 ng) 1 4-1BB (1,2(6) 5 ml NT buffer 2 ml 0.14 67 (ul 26TP (10mm) Inl d TTP (10mm) C3-PJd ATP 10 ul [3°p]dorp (oul DN Arose/pol water (Inl 12:42 14:20

3 × 10t cpm/ x 100 ml x 100 mg = 3×10 cpm/

300

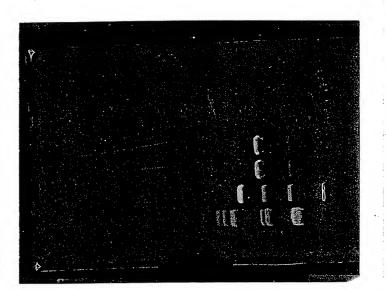
.60 2004314

1884848

3340523.3 3141413.3

: hybridization is x so com NYTRAN 5M Naci 10 ml 10% 505 150 mg/ml 5.5. PNB (10 mg/ml × 750 ml) 750 ml × 50 ml = 7.5 mg

Probe 3 × 106 cpm/ml 50ml× 106 cpm/ml =5×107cpm (-1107cpm/3x106cpm/1 = 20 pl at 65°C 0/N Wash 1. 2×55C+1%5DS at R-7. (total sound) 2. 2×55C + 1% 5PS at 42°C for 15mm. expose film at -70°C develop after 18 hrs



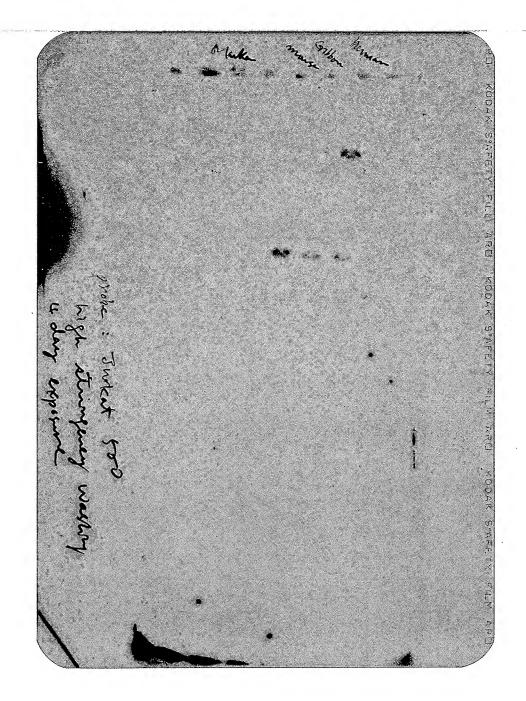
Harose 1%

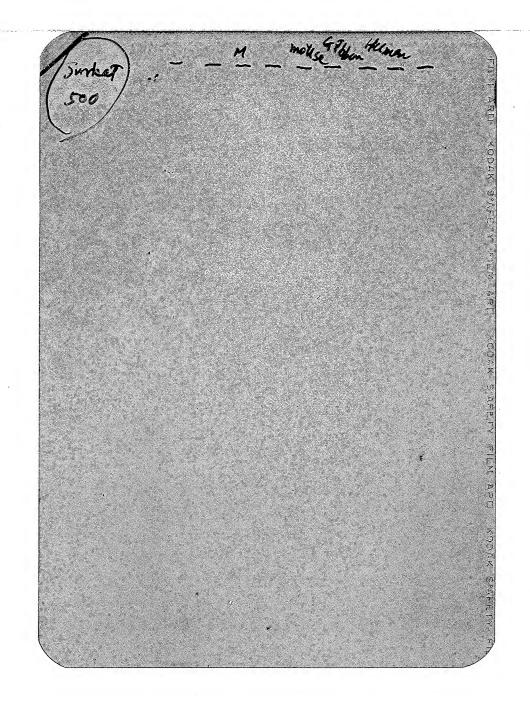
BS+ XI cut (300 mg) Enklint (") unut plono 1

1 wong

PCPNA test cut · dilute DNA (4 mg/ul) I ul in TE19 ul (1:20 d-/utio) . RX 1 diluted DNA (200mg/ul) 3 rel (600mg) NEB buffer zúl 14 ml water BstXI 20 ml 50°C . 17:55 diluted DNA RX2 3 ul (frong) REOUT 3 2 ml water Gull Inl 37° - 17:50

Mamme strip [0,2% SBS]
[10mM Tris pH 8.0 85°C 2h
(50mm by fault) 20:40
~21:40







Nick translation of Jorkat too per fragonest (PAGE purified) DNA (100 ng) follows 4-188 letelling protocol (page 15) at 16°C 16:25~18:25 <u>:37 3993566 - 1979</u>273 - 317674748 4/19944/8 4.7 ×10 cpm/ul × 30 pl = 1,2×10 cpm 5p. act. 1. 10 Cp /ml x 25 ml = 5 ml 8x17.5 am membra : 140 cm² - 28 ml 50 ml x 6x = 15 ml (1 20×55c) forml x 0.5% = 2.5 ml (1 10% sps) 10 mg/ml x to ml = 500 ml (of 10 mg/ml \$5-DNA)

cycle profile

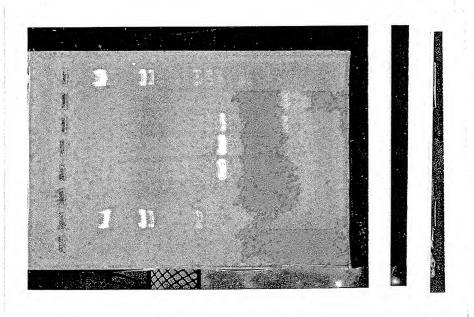
Mer 14. 94°C 2min

15. 94°C 1min st°C 1min 72 1min

16. 94°C " " " " 2min

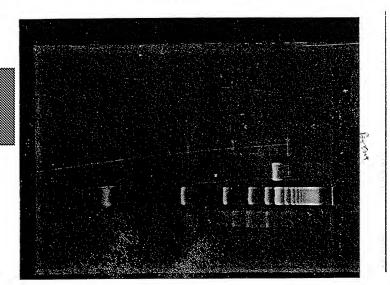
17 72°C 10min

7 20°C



prof great steel





Brent 900

steel @1 16b /

(480

(2) 38V

MIP @ 900

(D)750

B 700

(1) 550

330 ...

7 . O

0 21

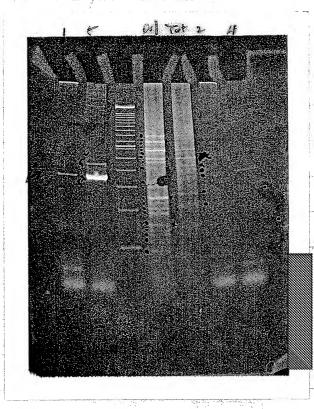
تحر

3/0

150

, Ø		1989 Total 1940 12.		
PAGE purification	of Steel,	Brent (pm	reli7), and A	12P PCR
BOH ppt of 100 m				
	- or imear PA			
	JЦ			100 100 100 100 100 100
1.5 1.5 1.5 cm lm cm	- 1	1941. julioli il di ammangami il ling primordina dimandigi a agambini (il li) si animalani.	and a second second and analysis of the second seco	en complete en est en en en en en en
Steel Brent MI		THE RESERVE OF THE PROPERTY OF	m magasa n, , n masani w, wa - 1 1000 (n. 1000) ,	
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OND >	soul cin	:		**************************************
10x buffer	10 ml		er der eller i state de geller skriverheideligt og de state i til en	······································
wate	68 ml	mas	ter mix	
Kinese	inl	_/ 8	oul × 13 =	1040.nl
Klénow	(ml -	· · · · · · · · · · · · · · · · · · ·	10x buffer	130 ml
	(x) In co)	= 1300 ml)	water	8 90
No. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second secon	The same of the sa	Kinase	
	1995 (a), https://doi.org/10.1006/10.2006/10.2006/10.2006/10.2006/10.2006/10.2006/10.2006/10.2006/10.2006/10.2	Annahir a din samu a maka a	Klenow	ionl
8=+1 ~ 3	$\vdots \\ \hat{\psi} \Big\}$			1049 nl
were and the second	tel direct engly with a security constraints. Approximately designed communication	destandamenta de empresa e describación de desta de en defendados e, vives e e	the face of the defendance is a major service consideration and case of particles (i.e., including a set in the	
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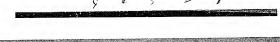
templete O STIVER @ heters 3 CSTBL DEST EDNA MOUSE

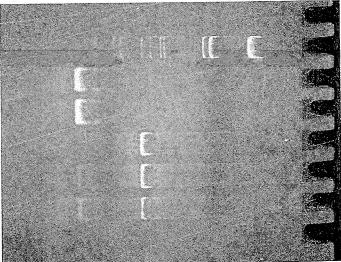
(5) PMZLI7CONA (helf vol.)

(or ul/reaction x (5 reactions + Inegatare countral) = food (-1 ml x 5.0 = \$45.5) 5° ul 10 x buffer -MgC/2 (50mM) 20 ul (2mM fmel)

dNTP (10mM) 40 ul (0.2mM 1) frmer (51283) 4 ml (~0.8 pm/e/nl) primer (5(1284) and (12 subtetel 35 ml 3 sel (\$500;05)
44.6.5
545.52 water divide 99 ul each (x5) and 50 jul

Preparties for cONA Synthesis 1. pxm/RI cap treatment ~ 20 Mg pxM/Re (pape 5) P/E extracted & E04 gur dissolved in 90 Med Tris CPH 8.4) CPH 8.3) dignost I me and save add 10 ml ctp butter (10 mm ZnC1-10 mM Mgch (00 met of they (ph 8, 4) add I'ml (1 mit/ul) of BM CIP months at 37°c for 30 min. add 2 pl of 0.5M EGTA (final 10 mM) (and members at 68°C for 45 min (or 60°C) add pre-heated (53°C) phenol/culoration, (voitex and mulate at site for suin. - Spin and transfor supper ag-layer to new tube >) repeat EOH PAT

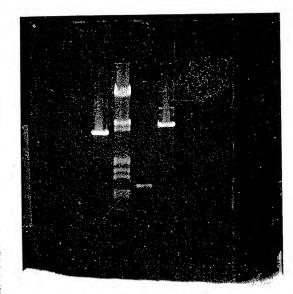




PCR repeat (page 25) templete o silver @ heters @ CITBL @ silver DNA @ Omouse pMZi 17 CDNA volume some on page 24 Cycle profile legel Ober 14 Offic 2min 4 cycle user 15 94°C 1 min 50°C 1.5 mm 16 grec I min 53°C 1.0 mm itagele over 17 94°C /mm 55°C 10 mm 72°C 222 72°C 10 min 7 xc R.T. 50 ml/reaction X 5 reactions = 25 onl (- inftemplate x to template = 245 ml) master nix 10x buffer Inl Mgc/2(502M) 7.5 M (1.5 mM final) dNTP (10mm) 5 M (0.2 mm n) primer (51283) 20 M (1 pmole (M)
4 (51284) 2,0 M (4 subtatel 41.5 ml 20 ml 201,5 ul 245.0 ml divide 49 nl X5 tube KWON000158

	A320	12060	20
1.0000	0.0000	0.000	(7. t)
2.0000	0.0043	0.0700	P 1
3.0000	··()。()()	-0.001	× () ,
4.0000	$-()$, (\mathcal{H}) !	0.0477	0.0
5.0000	-0.001	0,0400	0.0
۵.0000	0.0045	0.0034	0.0
7.0000	0.0040	0.0030	0.0
8.0000	0.0079	0.1348	0.2
9.0000	0.0075	0.1344	0.2

COM 8 4-183/R1 PXM



CDM 8: Stuffer remains

E-188/RT

px M: Some unit

remains

Test ligation of CIP Tx PXM/RI vector

CDM8/B; tXI

1. PXM/RI (111 ong/nl) 12 ml inl

4-1BB (15.7 mg/nl) 1.7 ml

5x BKL batter 4.0 nl 4.0 ml

TH DND Eigen 1.0 nl 1.0 nl

water 12.3 14.0 nl

Nextors are not prepared well!

Nextors are not prepared well!

Vertors are not prepared well!

			****			. 1 0	n/A >						
Appared to 112 months on an appared to 122 months on the second ap	Dot	blot	6	MLA	Alpo	tal R ly B I	PCR	س .	v du	cts			the tree of different and participates are
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	4-1	BB PXM	- JONEA	pcpm8	Lødder	\	Poly-	7 110	120	135	/5-0	180	
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	7	780 780	70t 200	270	350	380	410			2000		4-185	Parameter and the second secon
	and the second s	And the state of t	entre en la companya de la companya				American Principal Control of the Co		The second street of the secon		Againment against	Transferred to the control of the co	
		each	0		e pr	odust	- (o	ut	200	ml)	dotte	ed.
	pxm 100 ng												
gegen fra 1978 i Managere e mengelen per 1977 e si approvince de constante de la constante de co		óm s		U		la a rema efensymysyddiaegolyg			and apply and to glow of a Physical Arthrophysical Security (1997).		er in saara oo eersteeren aantigsj er is de deligieje erwydiogen, eiste	r og fillford Etyte savletting skalen dag Til garage	
		lder				l)	and the second second second second	arim assumed but it baths are sold	and the second section of the section of the second section of the second section of the section of the second section of the sectio	n in white Brownight of the same and grave and	The fig. 1 th shader was some sufficient the state of	er sagrantess, d. valu timos significance	THE COURT OF THE C
- Parameter State	after	applic	150	ng	Llon	x 5	~ D.	p. W	rakalaning graning giring a yan	more find despusance access ace.	Mindestrianis for y Sun Fore section	t direktoria sa sespitan hijan ere sespita hija	rradia and response to the strategic and the str
after application floort on D.D.W. . denoture for 5'													
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5. partially dried -> Stabilities													
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					and a second of the party of th		c marrow met met interiorme				erigan ini saas ananga (inga kesasahan	K	WON000161

SAMPLE	A320	A280	A260	2907270	260/980 PROTEIN NUCLEIC ACTO
1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 10000	0.0000 0.0188 0.0000 0.0050 0.0028 0.0013 0.0051 0.0000 0.0261	0.0000 0.0379 0.0000 0.1120 0.0023 0.0026 0.0000 0.0432 0.0000 0.1060	0.0000 0.0442 0.0000 0.2143 0.0026 0.0036 0.0036 0.0000 0.0812 0.0000	****** 0.4464 ***** 0.5067 0.8462 -0.182 1.0000 0.5005 ******	****** 0.000 ma: 0.w 0.000 2.2401 mely miles 6:54 2.2197 22.187 mg/ml ****** 0.0000 0.0000 1.9753 pcom8 9998 6:66 0.4350 97.536 mg/ml 1.1010 0.2891 0.0169 -5.500 -0.515 0.0611 1.0000 -1.017 -0.034 1.9979 pcomal 4848 6:58 3.4146 34.146 4 ****** 0.0000 0.0000 1.9501 px M 6.7527 6:54 7.7858 77.858

Isgation of BS+XI cut pCDM8 & pCDNAI with adapted prut fragment of pMZL 17 (2 pr pxm fry) Adaptor ligation PVUI fragment (22 m/ul) 2 ul BS+XI adapter (0.5 mg/ml) Inl 5x BRL log. buffer 4 ul water 12 ml 1 ml T4 legase 20 ml at 16° 1 hop 11:420 01:00 at 65°C 10 min add NaI (gene clear Ki+) 150 ml · add zul of glassmilk (01:17) · follow gene clear procedure · elute turce - total soul

0.3 ml add divi add 31 (RV B5 B6) (1) 02 C1 (0) p2 D3 rlamed) heat shock at \$42°c water both for 65 seconds onice for > zmin. add 350 pl of SOC medium (provided by Invitrage) 37°c on the wheel for 1 m. plate whole thing on Ang-LB plate - (8. h; before plating add 3ml LB)
and plate 100 ul each 1 325= 18,200/ng d: 279 1-X105/ 10²/ag KWON000164

18 July 19

A 7	
ligation of adator-pM2117/put c	rebm8
	L pcona 1
1. gene-cleaned adapter-pmel 17/pm TL	o loul (~zong)
@cpm8 (87 m/ul) pcoNAI 134 my/ul) Inl 3nl
5x (20 huller (BKL)	4 ul 4 ul
water yester	alone 4 pl 2 ml
logue (T4 DNA Mare. BRL) (5)	egalicia Dinl
verter verter Verter (T4 DNA 1yane. BRI) (E)	20 ml 20 ml
	at 16°C
* control: pmel 17/pvelt in place	- Ladapter-mel 17/2001
pmel 17/pvuz (22 ng/ul)	jul jul
pmel 17/pvnz (22 ng/ul) © CDM 8 (97 ng/ul) pcDNA1	1 ml 3 ml
5x 1zy. belfer	4 nl 4 nl
water	13 ml 11 ml
Logare	Cul in
y	20 ml at 16°C
8. Transform prestor Done	
COMP - vector + frag.	(8)24
L DCDNA I - vector + adapter	+ frag
Luncat vector	(ing)
Chus FibNel	KWON000165

lightion of pXM/RI. CTP

1. pXM/RI (78mg/nl) CTP 2 nl 2 nl 1 nl

4-18B (16 mg/nl) 2.5 nl

5X BR ly. buffer 4 nl 4 4

water 10.5 13 nl 14

TU legare (BRL) 1 nl 1

20 nl 20 nl

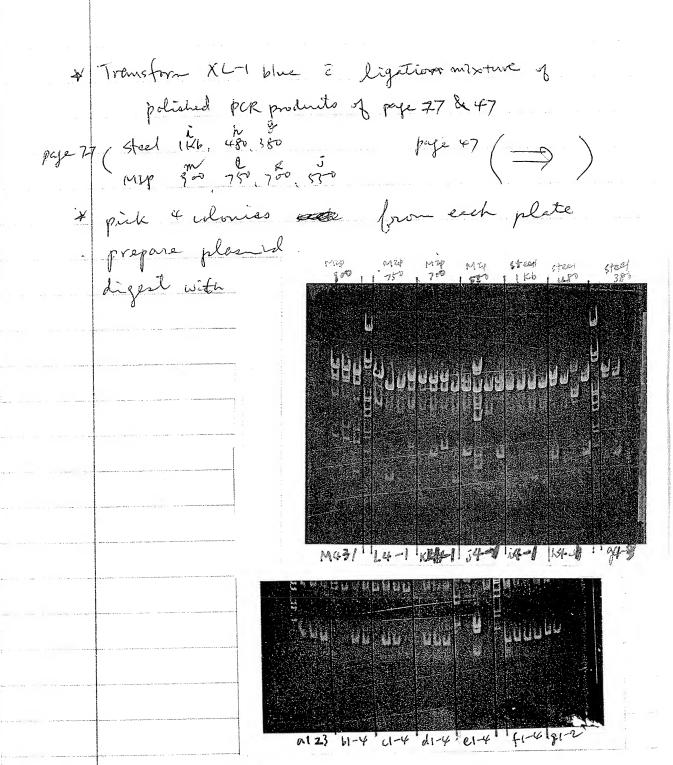
A PXM/RI CIP-not To Inl

May to y gris X 123 May 10 May

. 1. 2. 3. 4 6. 3. 12 MZP 4000 : 1 2, 3, 4, 5, 6, 9 : 5, 7 (mo insert) : 7 : 8

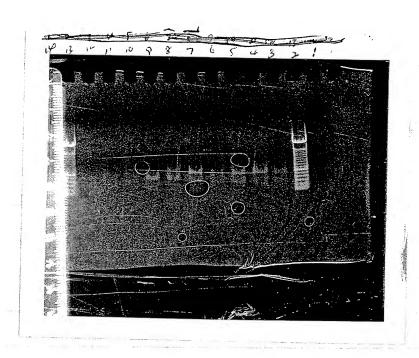
KWON000167

digestion of MIP 400 L MIP 500 dones (10 ench \$ 2) · masternigx I for 20 Mx 20 = 400 (-5 ml of miniprep > 20 gra) REaut 3 40 ml water 240 ml EroRI 20 ml - divide into so used & washed tubes · add Jul of minipeeps. .. mix and at37°c for 2hr . take 10 ml separate Into remaining 10 ul add 10 ul of materia 2 mæster mix 2 REad i zoul water 170 Hmdte 10 ml mix and incubate for 1 m at 37°C take coul and run gel



KWON000169

per products Egation of Steel 1Kb, 480, 380 (7 fraguet) reation. 7/20 = 140 M (- 10×70 = 70ml) 5x bitter 28 ml vector Int (ptom3/smus csp tx) witer 36 ml divide into 7 tubes (wal each) and perforg. (10 pl each) T4/yee 5ul 70 ml at 20°C 65°C in 17 julion of pck products from Solver genomie (-2 (35°bp) monse pMBL17 CDNA 5-1,5-2 57 luer CDNA 4 (350 bp) (page 33) solver genomic / (1,2 kb@ and 350bp) 6x 20 ml = 120 ml (- 10 ml x 6 = 60 ml) 5% briffer 24 ul Vector 1 ul water 32 ul a 1-2 Hit (ioul) divide into 6 tilles 10 ul ench add orepaired fry. c 5-2 Welf (1" ml) T4 ligere 3 ml at so'c e 1 (1.6 Ko) half + 1 (350 | half KWON000170



6×55C

5× Denhando

1°/6 505

150 mg/ml 550NB

at 7:20 at 65° c

8:20

hyporidigation

GX SSC

5 X Denhands

1% SDS

(1% SDS

(10 po profer SS. DNB

4-1BB prohe 5×10 cpm/al

at 37. C

total

poly A+

total RNA

1. falle 4-18B

2. 4-183 ladder

3 98 200,550 7 12/4

4. 110 240 \$570

5. 120 295 600

6, 135 320 650

7. 150 410 700

8 (190) 470 780

9 (210) 490

12. 220 380

11 (270) 410

11. 350

13. 4-184 ledder

14 4-183

SAMPLE	A320	A280	A260	280/260	260/280	PROTEIN	NUCLEIC ACID
many product orders from the second second	man and may have dette that arre dest	The state of a most brief woods define addition to the	their many regard marks young plans grant arrive t	ngan tining til militar yang dalah mbasi antas antas yang mban	article field the as a much seems which the first was an explicit him.	and the second section of the second second section (1991).	and and any series of the same of a continue, the parties are the same
1.0000	-0.001	0.0000	0.0010	0.5098	1.9615	0.0692	0.0909 - RC/CMU (RC+XI) = water
2.0000 3.0000	0.0049 -0.001	0.0424 -0.001	0.0801 0.0000	0.4989 -0.080	2.0043 -12.50	1.2821 -0.881	3.3794 pRc/cmv (B;txz) = water 0.0658 2.5: 57.5 = 84 mg/ml
4.0000	0.0293	0.0520	0.0678	0.5894	1.6966	5.0585 0.057/	1.6039
5.0000 4.0000	~0.001 0.0119	0.0000 0.0201	0.0000 0.0300	1.0000 0.4523	1.0000 2.2108	0.9536 -0.997	0.0323 0.8410
7.0000 8.0000	0.0112 -0.002	0,0205 0.002	0.0295 -0.002	0.5098 -2.000	1.9614 -0.500	0. 62 12 -0.618	0.8143 0.0216
9.0000	0.0174	0.0338	0.0498	0.5222	1.9148	1.6751	1.3883 pMz 17-1/pVUIL 195+x 1: 1.3994
10.000	0.0181	0.0340	O.Q495	0.5077	1.9599	0.9589	1.3883] pM22 174/pVUIL 1954x 1; 1.3994] pM22 174/pVUIL 1954x 1; wide
							/ul

cut pRC/CMV TO BotXI 15 ml (15 mg) plasmid 10 ul NZB #3 70 ul water 5-ul BSTXI 100 ul 9 5x lzg. butfor 4 4 PVUI/B,+x1 Master mix 20 x 6 = 120 {- (1+15) x 6 = 100} (x buffer 24 water 69 KWON000174 Jostieling 1 Kb.

Dr. Kr. har light

plate X2-1 hour

2) all the fragues of Mip-pck

Stilling has been repaired

& cloned

